



# WATER USE EFFICIENCY IN PUBLIC WATER SYSTEMS

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## Presenter

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### Water Use Efficiency in Washington 1989-2020

Legislative Action

Planning and implementation

Improved water use efficiency

## Legislative Action

- RCW 43.20.230 (1989) required state development of procedures and guidelines.
- RCW 43.20.235 (1993) required water systems to evaluate rate structures that encourage water conservation.
- RCW 70A.125.170 (2003) specified requirements for municipal water suppliers.

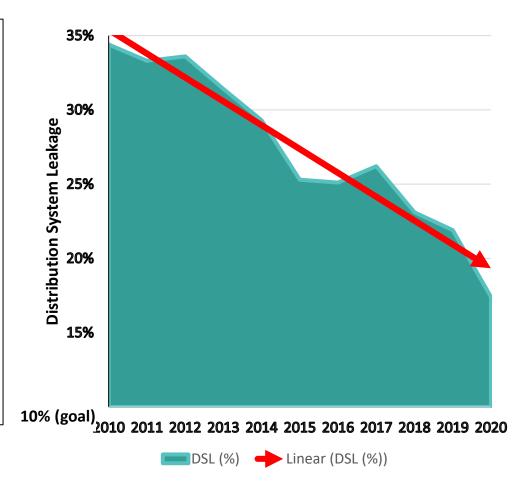
## Planning and Implementation

- Part 8 of 246-290 WAC (2007) requires:
  - Creation of water use efficiency (WUE) plans
  - Reduction of distribution system leakage
  - Setting achievable goals for their customers
  - Adoption of measures to help their customers
  - Reporting performance annually
- WAC 246-290-496 (2007) requires service meters for all connections, with exceptions

# Supply Side: Walla Walla Repairs

#### From 2010 to 2020:

- Distribution system leakage reduced by infrastructure improvements
- Average reduction of 1.7% per year
- Now saving over 600,000,000 gallons per year

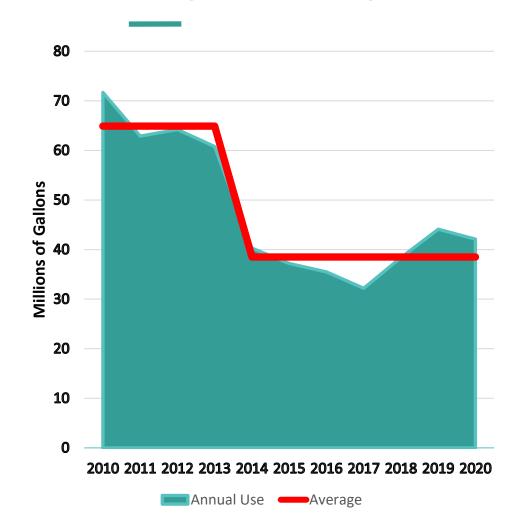


Sources: Walla Walla Water Department Annual Water Use Efficiency Performance Reports, 2010-2020

## Demand Side: Mesa Customer Choices

#### **Beginning in 2014:**

- Mesa began charging by volume
- Mesa's production decreased by 26.4 million gallons per year
- Water production decreased by 41%

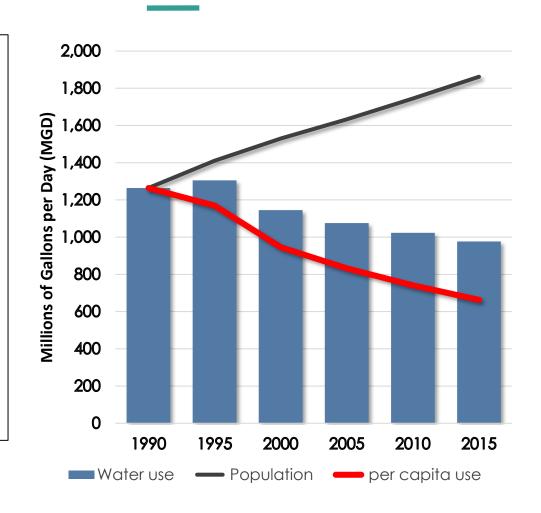


Sources: Mesa Water Department Annual Water Use Efficiency Performance Reports, 2010-2020

## Population Versus Water Use

#### From 1990 to 2015:

- Washington's population increased by 47%
- Domestic and public water use decreased by 23%
- Per capita water use decreased by 48%



Sources: USGS Fact Sheet 2010-3057, USGS Circular 1405, and USGS Circular 1441

# Summary

- Public water systems have decreased distribution system leakage
- Water system customers are making informed choices that reduce demand
- Despite population increases, public water system withdrawals have decreased



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